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87th Annual Meeting, 2003. Secretary's Report and Financial Statement

Academy Editors

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JOURNAL ARKANSAS ACADEMY OF SCIENCE

ANNUAL MEETING 4-5 APRIL 2003
UNIVERSITY OF ARKANSAS AT FAYETTEVILLE

Walt Godwin
President

Wayne Gray
President-Elect

Jeff Robertson
Secretary

Joyce Hardin
Treasurer

Ed Griffin
NAAS Delegate

Henry Robison
Historian

Secretary's Report

MINUTES OF THE 87TH MEETING

FIRST BUSINESS MEETING

*University of Arkansas-Fayetteville BELL Center
APRIL 4, 2003*

1. Call to Order: Walt Godwin, President of the AAS, called the meeting to order at 11:00 am with a welcome to all participants. He indicated that the very best thing that we could do as members is to PARTICIPATE and encourage our colleagues to PARTICIPATE in the Arkansas Academy of Science and to PUBLISH in the Journal as it is a PEER REVIEWED journal.
2. Historian: Henry Robison reported that this is the 87th annual meeting of the Arkansas Academy of Science, the 13th such meeting held at Fayetteville and that it had been 12 years since the meeting had last been on the University of Arkansas-Fayetteville campus. Previous meetings included 1937, '40, '48, '51, '54, '61, '65, '69, '72, '78, '84, and 1991.
3. Local Arrangements Chair: Greetings and welcome on behalf of the University to the AAS membership were given by Collis Geren. He expressed his thanks to the many people who have prepared to host the meeting and gave particulars about the facilities and activities planned.
4. Secretary: The minutes from 2002 business meetings at the UALR campus were compiled by Wayne Gray and distributed for approval by vote at the second business meeting. Jeff Robertson reported on the current membership list that included approximately 150 members and 50 student members to the Academy. A request for \$200 was made to offset mailing charges incurred for the AAS mailings, the Newsletter, and Journals that were not picked up at the annual meeting which will be voted on at the second business meeting.
5. Treasurer: Joyce Hardin distributed the AAS 2002 Financial statement to the membership. She indicated that because of changes in checking and banking charges the AAS now uses Bank of Ozarks, Conway

2002 FINANCIAL STATEMENT

Ending Balance - December 31, 2002	\$ 28,720.77
Beginning Balance - January 1, 2002	<u>\$ 28,665.45</u>
Net Gain	\$ 55.32

DISTRIBUTION OF FUNDS

Checking Account (Bank of Ozarks, Conway, AR)	\$ 1,017.72
Certificates of Deposit	
Dwight Moore Endowment (Bank of Ozarks, Conway, AR)	\$ 4,757.24
Life Membership Endowment (Bank of Ozarks, Conway, AR)	\$ 12,500.00
CD Unrestricted (US Bank, Conway, AR)	\$ 5,000.00
Phoebe and George Harp Endowment (Bank of Ozarks, Conway, AR)	\$ 5,445.81
TOTAL	<u>\$ 28,720.77</u>

INCOME:

1. ANNUAL MEETING	\$ 2,555.89
2. ENDOWMENT DONATIONS	
a. AAS Unrestricted	\$ 25.00
b. Moore	<u>\$ 25.00</u>
	\$ 50.00
3. INTEREST	\$ 665.98
4. INDIVIDUAL MEMBERSHIPS	
a. Associate/Student	\$ 800.00
b. Regular	\$ 2,830.00
c. Sustaining	\$ 70.00
d. Sponsoring	\$ 0.00
e. Life	<u>\$ 0.00</u>
	\$ 3,700.00
	<u>\$ 3,700.00</u>

Secretary's Report

5. INSTITUTIONAL MEMBERSHIPS		\$ 2,100.00	
6. MISCELLANEOUS			
a. Memorial - John Rickett	\$ 100.00		
b. Uncleared check (#699-18 months)	\$ 50.00		
	\$ 150.00	\$ 150.00	
7. JOURNAL			
a. Miscellaneous Sales	\$ 2,850.00		
b. Page Charges	\$ 6,120.00		
c. Subscriptions	\$ 850.00		
	\$ 9,820.00	\$ 9,820.00	
TOTAL INCOME			\$ 19,041.87
EXPENSES:			
1. ANNUAL MEETING		\$ 0.00	
2. AWARDS			
a. Arkansas Science Fair (723)	\$ 400.00		
b. Conway Trophy (1001)	\$ 26.84		
c. Student Awards	\$ 900.00		
d. Walt Godwin (1002)	\$ 81.09		
	\$ 1,407.93	\$ 1,407.93	
3. MISCELLANEOUS			
a. Checking account service charge	\$ 16.00		
b. Checking account adjustment	\$ 32.20		
	\$ 48.20	\$ 48.20	
4. NEWSLETTER		\$ 0.00	
5. OFFICE EXPENSES			
Treasurer - Joyce Hardin (1007)		\$ 32.20	
6. JOURNAL			
a. Stan Trauth - Editorial Consultation and Travel Volume 55 (717)	\$ 200.00		
b. Pinpoint Color Volume 55 (711)	\$ 16,677.22		
c. Joy Trauth - Editorial Consultant Volume 56 (1004)	\$ 600.00		
d. ATU Physical Science Volume 55 (1006)	\$ 21.00		
	\$ 17,498.22	\$ 17,498.22	
TOTAL EXPENSES			\$ 18,986.55

AR. She also indicated that the Accounting committee now meets before the AAS business meetings to go over the books. Details on the income and expenses for the year were presented in addition to journal cost issues. There was a \$200 donation to student research from UALR left over from the 2001 AAS meeting that is reflected in the budget.

6. *Journal* Editor-in-Chief: Stan Trauth introduces Chris McAllister as the new journal managing editor to replace the resigning David Saugey as voted on by the Executive Committee. He reports that Vol. 56 of the journal is 257 pages and that the current \$40/page

charges to publish need to be increased to \$50/page. A request for the Academy to continue to support the *Journal* Editor-in-Chief with an allotment of \$200 to cover incurred costs will be voted on at the second business meeting. Extra copies of the journal will be available at the annual meeting at a cost of \$30/issue. Extra copies after the meeting and back issues will continue to be available for \$50/issue.

7. *Journal* Managing Editor: David Saugey welcomes Chris McAllister as he passes the torch. David indicated that the current journal enlisted 70 peer reviewers. He also indicated that one of the national agencies to whom we share our journal with, congratulated the Academy on the quality (both scholarly and aesthetic) of our journal compared to other State Science Academy journals they collected. A request for \$500 to cover incurred costs associated with being managing editor was made and will be voted on at the second business meeting. David also wanted to alert membership to the changes in the reprint order forms associated with the journal. Chris McAllister emphasized the need for members who wish to publish in the journal to "get their papers right!" *Journal* guidelines must be followed. If they are not, you will get your paper returned, no questions asked.
8. Newsletter Editor: Jeff Robertson mentioned that now he wears two hats (Newsletter editor and Secretary) there is an opportunity for an enthusiastic someone that desires to participate more fully in Academy business to become the newsletter editor. Jeff will continue happily to do both until such an individual makes themselves known.
9. Arkansas Science Fair Association: Joyce Hardin presented the report from Michael Rapp who requested that the Academy continue to allocate approximately \$400 dollars to support the Arkansas Science Fair Association.
10. Junior Academy of Science: Joyce Hardin indicated that the current directors had resigned and that the Junior Academy was in need of new directorship. A request to continue to support the Junior Science and Humanities Symposium through an allotment of \$200-400 was made to be voted on at the second business meeting.
11. Intel Talent Search: Joyce Hardin presented the report. The talent search has requested \$90 for three plaques to given as awards, be supported by the Academy by vote at the second business meeting.
12. Committee Reports:
- Biota Committee: an announcement that the computerization of the Biota list is now complete was made.
 - Nominations Committee: Mostafa Hemmati, Scott Kirkconnell and Robert Engelken suggested Vice-

Arkansas Academy of Science

Presidential nominees for inclusion in formal nominations at the second business meeting.

- c. Science Education Committee: Mostafa Hemmati and Collis Geren indicated they would host a meeting of the committee and interested parties at 4pm after the sessions.
13. Old Business: The establishment of an AAS Young Investigator Award was tabled.
14. New Business: The Academy had asked Renn Tumblison to work on a design for a new logo for the AAS that better reflected the nature of the Academy as an Arkansas Science entity. The draft design was previewed and accepted by the executive committee and will be presented at the second business meeting for approval. Invitations are now well in the future (2006) for hosting annual meetings of the AAS as the Academy will meet at ASU-Jonesboro in 2004 and at Hendrix in 2005. Richard Speairs announced an OMBS meeting. David Saugey encouraged participation in the annual ONF Bat Blitz for faculty and students.

Jeff Robertson, AAS Secretary

*SECOND BUSINESS MEETING
University of Arkansas-Fayetteville BELL Center
APRIL 5, 2003*

1. Call to Order: Walt Godwin, President of the AAS, called the meeting to order at 11:40 am.
2. Historian: Henry Robison reported that this is the 87th annual meeting of the Arkansas Academy of Science, the 13th such meeting held at Fayetteville and that it had been 12 years since the meeting had last been on the University of Arkansas-Fayetteville campus. Previous meetings included 1937, '40, '48, '51, '54, '61, '65, '69, '72, '78, '84, and 1991.
3. Secretary: The minutes from 2002 business meetings at the UALR campus were approved. Jeff Robertson reported on the current membership list that included approximately 150 members and 50 student members to the Academy. A request for \$200 was made to offset mailing charges incurred for the AAS mailings, the Newsletter, and Journals that were not picked up at the annual meeting was approved.
4. Treasurer: Bob Wiley, chair of the Accounting Committee, and Eric Sundell praised Joyce Hardin for the truth and accuracy of the Arkansas Academy of Science books. The financial report was unanimously accepted.
5. *Journal* Editor-in-Chief: Stan Trauth gave praise and thanks to outgoing journal managing editor David Saugey. Chris McAllister begins a 5-year appointment as the new journal managing editor. A motion to increase page charges from \$40/page to \$50/page was approved after an amendment to include a clause for hardship cases.
6. *Journal* Managing Editor: David Saugey indicated that one of the national agencies to whom we share our journal with, congratulated the Academy on the scholarly and aesthetic quality of our journal compared to other State Science Academy journals they collected. This is helped in part to the "wide spectrum" of peer reviewers in our acceptance process. A request for \$500 to cover incurred costs associated with managing editor duties was approved.
7. Newsletter Editor: Jeff Robertson noted that there is an opportunity for a newsletter editor. Jeff will continue happily to do both the newsletter and secretary duties until someone desires to do the newsletter.
8. Arkansas Science Fair Association: Joyce Hardin presented the report from Michael Rapp and approval of \$400 dollars to support the Arkansas Science Fair Association passed.
9. Junior Academy of Science: The Junior Academy is in need of new directorship. A request to continue to support the Junior Science and Humanities Symposium through an allotment of up to \$400 was approved.
10. Intel Talent Search: A request of \$90 from Jim Murray for three plaques to given as awards was approved.
11. Committee Reports:
 - a. Biota Committee: the computerization of the Biota lists are now complete.
 - b. Nominations Committee: Stan Trauth was elected by vote as Vice-President, joining Wayne Gray (President-Elect) and Betty Crump (current Vice President).
 - c. Science Education Committee: Mostafa Hemmati and Collis Geren shared information about the science education discussions.
12. Local Arrangements Committee: Collis Geren announced the various scholarly awards presented to students for their research presented at the meeting symposia.
13. New Business: The new Arkansas Academy of Science LOGO designed by Renn Tumblison was accepted by

Secretary's Report

the membership. Boa-An Li from ASU-Jonesboro announced the dates of the 2004 meeting as April 2-3, 2004. Richard Speairs suggested that more effort should be made to facilitate participation of the state's 2-year institutions in the Arkansas Academy of Science. David Saugey encouraged participation in the annual ONF Bat Blitz for faculty and students.

14. Closing: New president Wayne Gray accepted the gavel from former president Walt Godwin as Walt accepted a plaque from Wayne for his dedicated service. Wayne announced that everyone should develop plans to promote the activities of the Academy through advertising in every way shape and form. Meeting adjourned at 12:40 pm.

Jeff Robertson, AAS Secretary

APPENDIX A

2003 AAS Award Winners

GRADUATE STUDENT AWARDS

Engineering:

1st: Paul Millett
Computer Modeling of the Tornado-Structure Interaction:
Investigations...
UAF

2nd: Ty McNutt
Silicon Carbide Power Device Models
UAF

3rd: Faisal Magableh
Effect of Design Parameters on Slow Wave Resonators
UAF

Life Science:

1st: David Williams
Molecular Systematics of *Quercus Acerifolia* UAF

2nd: M. L. McCallum
Can the Illinois Chorus Frog Survive in Arkansas ASU

3rd: T. E. Posey
Individual-Tree Green Weight Equations for the Loblolly
Pine UAM

Physical Science:

1st: P. Rangarajan
Determinatin of Bile Acids in a Mixture by GC-MS
UALR

2nd: J. Annaratone
Preliminary IR Study of the Reaction ASU

3rd: A. Meier
Simulations of the Formation of Asteroids UAF

Poster Presentation:

1st: Emily Clark
Magnetohydrodynamics Studies UAF

2nd: Jennifer Lewter
DNA Sequence Analysis UAF

3rd: Eyutayo Fakunle
Low-Temperature Co-fired Cerami UAF

Honorable Mention: Muhammad Hossain
Assessment of Environmental Impact from the Wal-Mart
HS-UAPB

UNDERGRADUATE STUDENT AWARDS

Engineering:

1st: James Toland
A Development of a Generic Fatigue Life Prediction Model
ATU

2nd: Pashupati Adhikari
A New Parameter for Fatigue Crack Growth Rate Analysis
ATI

3rd: Bert Buford
Influence of Biological Factors in the Design of Hip Implants
ATU

Life Science:

1st: K. A. Davis
Effects of Nectar on Energy Content of Monarch Butterflies
UALR

2nd: R. G. Neal
Calling Site Characterization of the Illinois Chorus Frog
ASU

3rd: S. M. Starnes
Response of Individual Plants to Fire in a Relicited Grassland
Hendrix

Physical Science:

1st: Pashupati Adhikar
Antiforce Wave Profile for Quasi-Neutral Region ATU

2nd: A. Ellison
Synthesis of a Trinuclear Ruthenium Complex UAF

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Poster Presentation:

1st: Tiffany Ricks
Investigations of Stereoselectivity UAF

2nd: Amanda Suttle
Speciation of Chromate in Chromium ATU

3rd: Allan Holloway
Fabrication and Testing...CCD Spectrography UCA

APPENDIX B

RESOLUTIONS

Be it resolved that we, the membership of the Arkansas Academy of Science, offer our sincere appreciation to the University of Arkansas-Fayetteville for hosting the 87th annual meeting of the Arkansas Academy of Science. We thank the Local Arrangements Committee: Chair Collis Geren, John Hehr, Duane Wolf, William Brown and all of the student workers and staff, who collectively contributed to such a successful meeting, particularly Gail Piaha of the Division of Continuing Education, as well as Benita Wolff, Patricia Koski and Shannon Stewart. Appreciation is expressed for the use of these excellent facilities, and the hospitality shown to us by the University of Arkansas personnel. We especially thank our Keynote Speaker, Dr. W. Frederick Limp for the technically informative and timely presentation entitled "A Sense of Where You Are: The Growing Role of Geospatial Technologies in Arkansas." We thank the University of Arkansas for their donations to the Social and Banquet, which were both excellent and thoroughly enjoyed by all. And we thank Provost Bob Smith for his thought provoking and entertaining welcome.

We appreciate the Program Chairs, who contributed to the organization and facility provision for this meeting: Stephen Boss (Geosciences), Dennis Brewer (Computer Science & Computer Engineering), Johnnie Gentry (University Museum/Biological Sciences), Dale Johnson (Chemistry & Biochemistry), Hameed Naseem (Electrical Engineering), Curt Rom (Horticulture), Richard Ulrich (Chemical Engineering), and Kenneth Vickers (Microelectronics-Photonics). The Academy recognizes the important role assumed by Session Chairs and expresses sincere appreciation to: Charles Rosenkrans, Steve Beaupre, Edith Hardcastle, Em Ward, Adnan Al-Shariah, Susan Burkett, Husam Abu-Safe, Richard Ulrich, Curt Rom, Laurent Bellasch, Dennis Brewer, Greg Tom, Robert Bittle, Frank Millett, William Brown, Fred Barlow, Stephen Boss, Eric Sundell and Don Culwell. A special appreciation is owed to these individuals who devoted considerable time and energy to judging the student papers: Dan Davis, Grover Paul Miller, Mostafra Hemmati, Bao-Ann Li,

Tsunemi Yamashita, Russell Nordeen, Bill Durham, Lin Oliver, Frank Hardcastle, Paul Benoit, Collis Geren, Wayne Wahls, and Richard Ulrich.

We gratefully acknowledge the various directors of the science and youth activities which are supported or supervised by the Academy: Mostafa Hemmati, Chair of the Science Education Committee; Mike Rapp, Director of the Arkansas State Science Fair Association; Jim Murray, Director of the Intel Science Talent Search; and Rick Geraci and Mark Eakin, Co-Directors of the Junior Academy of Science. We wish to thank all those who served as directors at the regional science fairs and Junior Academy meetings including: Kathryn Shinn, Beverly Meinzer, Marty Huss, Lynne Hehr, Gary Earleywine, Jim Edson, Brian Monson and Mike Rapp.

The Academy appreciates the Arkansas Environmental Federation for donating to the undergraduate student awards and Sigma Xi for the graduate student awards. We congratulate all who presented papers and posters at this meeting. Student participants are especially recognized since their efforts contribute directly to the future success of the Academy and the improvement and advancement of science in Arkansas.

The continued success of the Academy is due to its strong leadership. We offer sincere thanks to our officers for another excellent year: Walt Godwin (President), Wayne Gray (President-Elect), Betty Crump (Vice-President), John Rickett, who will be with us in spirit for a very long time (Past-President), Jeff Robertson (Secretary), Joyce Hardin (Treasurer), Stan Trauth (*Journal* Editor-in-Chief), David Saugey (*Journal* Managing Editor), Jeff Robertson (Newsletter Editor), and Henry Robison (Historian).

Finally, the membership wishes to posthumously recognize Dr. Harvey E. Barton and Dr. Earl L. Hanebrink for their many years of numerous and valuable contributions and services to their students, to the Academy, and to the science and biology professions.

Respectfully submitted this 5th day of April, 2003.

Resolution Committee
Betty G. Crump, Chair
Wayne Gray
Walt Godwin

Secretary's Report

MEMBERS 2003

FIRST MI	LAST NAME	INSTITUTION
Robbin C.	Anderson	University of Arkansas-Fayetteville
Scott	Austin	University of Central Arkansas
Edmond J.	Bacon	University of Arkansas-Monticello
Gwen	Barber	Arkansas Tech University
Vernon	Bates	Ouachita Mtns. Biological Station
Melinda	Bodary	University of Arkansas-Pine Bluff
Wilfred J.	Braithwaite	University of Arkansas-Little Rock
Tom	Buchanan	University of Arkansas-Ft. Smith
Carrie	Cavanaugh	Arkansas State University
Michelle	Caviness	University of Arkansas-Fayetteville
David	Chittenden	Arkansas State University
Alan	Christian	Arkansas State University
Shawn	Cochran	U.S.D.A. Forest Service
Calvin	Cotton	Geographics Silk Screening Co.
Betty	Crump	U.S.D.A.
Donald	Culwell	University of Central Arkansas
James	Daly	University of Arkansas/Medical Sciences
Leo Carson	Davis	Southern Arkansas University
Robert H.	Dilday	University of Arkansas-Fayetteville
Paul	Doruska	University of Arkansas-Monticello
Mark	Draganjac	Arkansas State University
Brad	Edgar	Arkansas State University
Jim	Edson	University of Arkansas-Monticello
Rudolph	Eichenberger	Southern Arkansas University
Daniel R.	England	Southern Arkansas University
James	Engman	Henderson State University
William L.	Evans	University of Arkansas-Fayetteville
Kim	Fifer	University of Arkansas/Medical Sciences
James H.	Fribourgh	University of Arkansas-Little Rock
Arthur	Fry	University of Arkansas-Fayetteville
Linda	Gatti-Clark	Hendrix College
Johnnie	Gentry	University of Arkansas-Fayetteville
Collis	Geren	University of Arkansas-Fayetteville
David	Pace	Lyon College
Anthony	Grafton	Lyon College
John	Giese	Ark. Dept. of Env. Qual. (ret)
Walter	Godwin	University of Arkansas-Monticello
Dave	Gosse	The Nature Conservancy
Stephen	Grace	University of Arkansas-Little Rock
G.O.	Graening	Ozark Highlands Office
John	Graham	Arkansas Tech University
Wayne	Gray	University of Arkansas/Medical Sciences
Brian	Greuel	John Brown University
Joe M.	Guenter	University of Arkansas-Monticello
Franklin	Hardcastle	Arkansas Tech University
Joyce	Hardin	Hendrix College
Laurence	Hardy	LSU-Shreveport
George	Harp	Arkansas State University
Phoebe	Harp	Arkansas State University
Gary	Heidt	University of Arkansas-Little Rock
Ronnie	Helms	University of Arkansas-Fayetteville
Mostafa	Hemmati	Arkansas Tech University
William	Holimon	Arkansas Natural Heritage Commission
Philip	Hyatt	Kisatchie National Forest
Debra	Ingram	Arkansas State University
Jeffrey	Jackson	FTN Associates
Carol	Jacobs	
Douglas	James	University of Arkansas-Fayetteville
David	Jamieson	ASU-Beebe/Newport
Arthur	Johnson	Hendrix College
George	Johnson	Arkansas Tech University
Ronald	Johnson	Arkansas State University
Cindy	Kane	University of Arkansas/Medical Sciences
Roger	Koepppe	University of Arkansas-Fayetteville
Janet	Lanza	University of Arkansas-Little Rock
Bao-An	Li	Arkansas State University
Michelle	Mary	Arkansas State University
Donald	Mattison	March of Dimes National Office
Donald	Mattison	March of Dimes National Office
Chris	McAllister	Texas A&M-Textarkana
Malcom	McCallum	Arkansas State University
Roland	McDaniel	FTN Associates
Dennis	McMasters	Henderson State University
Grover	Miller	UAMS
Herbert	Monoson	Ark. Science & Technology Authority
Clementine	Moore	

FIRST MI	LAST NAME	INSTITUTION
Matthew	Moran	Hendrix College
Alex	Nisbet	Ouachita Baptist University
Russell	Nordeen	University of Arkansas-Monticello
Gaylord	Northrop	University of Arkansas-Little Rock
Tom	Palko	Arkansas Tech University
James	Peck	University of Arkansas-Little Rock
Floyd	Perk	U.S. Public Health Service
Janet	Rader	Southern Arkansas University
Michael	Rapp	University of Central Arkansas
Scott	Reeve	Arkansas State University
Dennis	Richardson	Quinnipiac College
Jeff	Robertson	Arkansas Tech University
Henry	Robison	Southern Arkansas University
Dennis	Ruez	University of Texas-Austin
Blake	Sasse	Arkansas Game and Fish Com.
David	Saugey	U.S. Forest Service
Lothar	Schafer	University of Arkansas-Fayetteville
Stephen	Sewell	University of Mississippi
Paul	Sherman	Arkansas State University
Richard	Smith	University of Arkansas/Medical Sciences
Betty	Spears	Ouachita Mtns. Biological Station
Richard	Spears	Ouachita Mtns. Biological Station
Lori	Spencer	Mt. Magazine State Park
Frederick	Spiegel	University of Arkansas-Fayetteville
Richard	Standage	USDA Forest Service
Eric	Sundell	University of Arkansas-Monticello
George	Templeton	University of Arkansas-Fayetteville
Stanley	Trauth	Arkansas State University
Joy	Trauth	Arkansas State University
Gary	Tucker	FTN Associates
Renn	Tumison	Henderson State University
Staria	Vanderpool	Arkansas State University
Brian	Wagner	Arkansas Game and Fish Commission
Wayne	Wahls	UAMS
Gerald	Walsh	
Rocky	Ward	Texas Parks and Wildlife Dept.
Hilary	Warley	Arkansas State University
Michael	Warriner	Arkansas Natural Heritage Commission
Benjamin	Wheeler	Arkansas State University
James	Wickliff	University of Arkansas-Fayetteville
Robert	Wiley	University of Arkansas-Monticello
Jim	Winter	University of Arkansas-Little Rock
Duane	Wolf	University of Arkansas-Fayetteville
Tsunemi	Yamashita	Arkansas Tech University
Bin	Zhang	Arkansas State University

SPONSORING MEMBERS

Bin	Zhang	Arkansas State University
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LIFE MEMBERS

Robbin C.	Anderson	University of Arkansas-Fayetteville
Edmond J.	Bacon	University of Arkansas-Monticello
Vernon	Bates	Ouachita Mtns. Biological Station
Wilfred J.	Braithwaite	University of Arkansas-Little Rock
David	Chittenden	Arkansas State University
Calvin	Cotton	Geographics Silk Screening Co.
Betty	Crump	U.S.D.A.
James	Daly	University of Arkansas/Medical Sciences
Leo Carson	Davis	Southern Arkansas University
Robert H.	Dilday	University of Arkansas-Fayetteville
Mark	Draganjac	Arkansas State University
Jim	Edson	University of Arkansas-Monticello
Daniel R.	England	Southern Arkansas University
William L.	Evans	University of Arkansas-Fayetteville
Kim	Fifer	University of Arkansas/Medical Sciences
James H.	Fribourgh	University of Arkansas-Little Rock
Arthur	Fry	University of Arkansas-Fayetteville
Linda	Gatti-Clark	Hendrix College
Collis	Geren	University of Arkansas-Fayetteville
John	Giese	Ark. Dept. of Env. Qual. (ret)
Walter	Godwin	University of Arkansas-Monticello
Joe M.	Guenter	University of Arkansas-Monticello
Joyce	Hardin	Hendrix College
George	Harp	Arkansas State University
Phoebe	Harp	Arkansas State University
Ronnie	Heidt	University of Arkansas-Little Rock
	Helms	University of Arkansas-Fayetteville

Arkansas Academy of Science

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Herbert	Monoson	Ark. Science & Technology Authority
Clementine	Moore	
Gaylord	Northrop	University of Arkansas-Little Rock
Tom	Palko	Arkansas Tech University
James	Peck	University of Arkansas-Little Rock
Michael	Rapp	University of Central Arkansas
Jeff	Robertson	Arkansas Tech University
Henry	Robison	Southern Arkansas University
David	Saugey	U.S. Forest Service
Stephen	Sewell	University of Mississippi
Betty	Spears	Ouachita Mtns. Biological Station
Richard	Spears	Ouachita Mtns. Biological Station
George	Templeton	University of Arkansas-Fayetteville
Stanley	Trauth	Arkansas State University
Gary	Tucker	FTN Associates
Renn	Tumlison	Henderson State University
James	Wickliff	University of Arkansas-Fayetteville
Robert	Wiley	University of Arkansas-Monticello
Stephen A.	Walker	

STUDENT MEMBERS

Jan	Annaratone	ASU
Kirk	Babb	UALR
Ben	Ball	ASU
Marwan	Barghouti	UARK
Amanda	Bell	UARK
Ty	Blacklock	UALR
Michelle	Christy	UARK
Emily	Clark	UARK
Amanda	Crnkovic	OMBS
Sami	Eyuboglu	UALR
Tommy	Finley	UALR
Kristen	Greer	UARK
Darin	Gwartney	JBU
Lori	Hardcastle	ATU
Edith	Hardcastle	UARK
Allan	Holloway	UCA
Eran	Jones	UARK
Sandra	Kirchhoff	UALR
Kate	Ledbetter	ATU
Thalia	Madewell	UARK
Sharmila	Magan Lal	UARK
Travis	Marsisco	UARK
Shannan	Nilz	UALR
Sarah	Nunn	UARK
Eyitayo	Ofakunle	UARK
Travis	Posey	UAM
Zach	Ramsey	TAMUT
William	Reed	ASU
Tiffany	Ricks	UARK
Anindo	Roy	UALR
Shawn	Singer	TAMUT
Michael	Slay	UARK
Kristen	Sterba	UAMS
Amanda	Suttles	ATU
Stacie	Thomas	UALR
Kimberly	Trobaugh	UCA
David	Williams	UARK
Jeff	Wilson	UARK